

ABSTRACT

Flexible compositions based on propylene polymers

The flexible compositions having no elastomeric fractions comprise:

- A) from 10 to 90 parts by weight of random copolymer of propylene and at least one comonomer selected from ethylene and C₄-C₈ alpha-olefins having a melting point of at least 100°C and not exceeding 140°C and a flow index measured at 230°C under a weight of 2.16 kg (ASTM standard D1238, 1986) of from 0.5 to 15 g/10 min, and
- B) from 90 to 10 parts by weight of plastomer prepared with participation of a metallocene catalyst and consisting of a random copolymer of ethylene and at least one C₃-C₁₀ alpha-olefin having a density of from 0.860 to 0.920 g/cm³, a melt flow index measured at 190°C under a weight of 2.16 kg (ASTM standard D1238, 1986) of from 0.5 to 30 g/10 min, and a molecular mass distribution M_w/M_n of at most 4.

These compositions provide an excellent compromise between flexibility and low-temperature impact resistance and heat resistance. They are suitable for producing flexible mouldings and very particularly for the manufacture by extrusion of films, of flexible sheeting, and of cables.

No drawing.